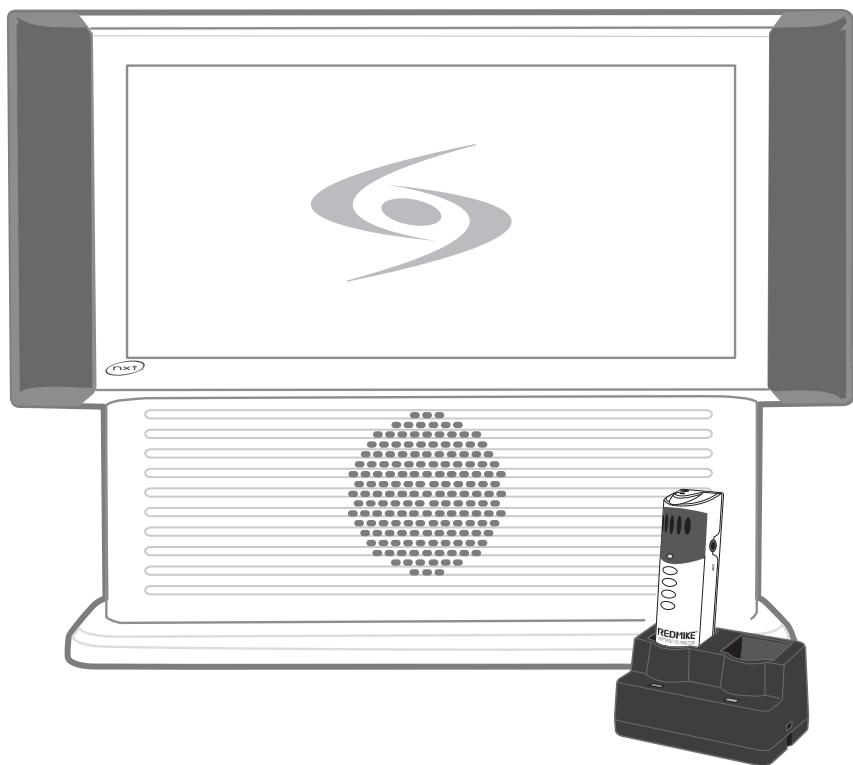


Classroom Audio System



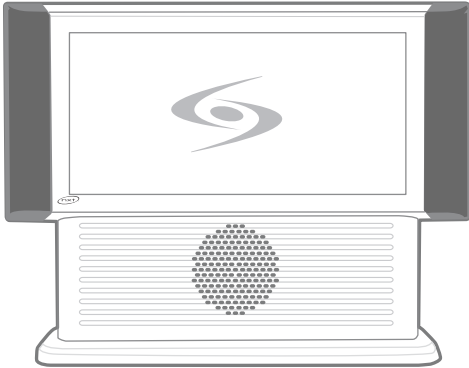
User Manual

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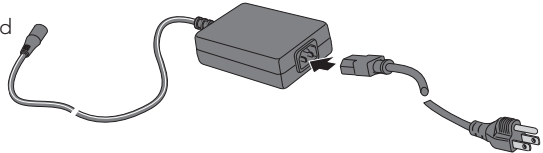
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SECTION 1:**OVERVIEW****SYSTEM COMPONENTS AND UNPACKING**

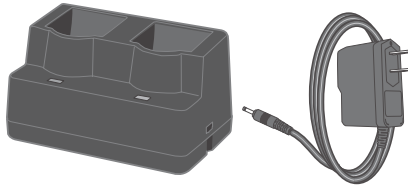
The standard configuration of the REDCAT® Media will contain:



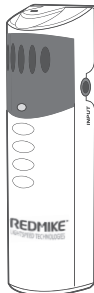
REDCAT® Media Infrared
Receiver/Amplifier
with Table Stand and
Power Supply



Charging Cradle and
Power Supply



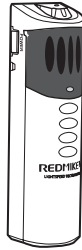
REDMIKE®
Classroom
Microphone



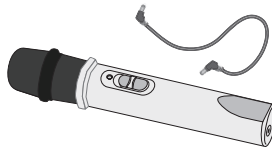
OPTIONAL COMPONENTS

Optional equipment which may be part of your REDCAT Media system:

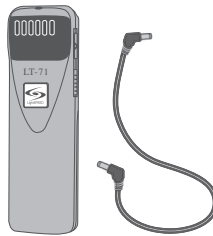
REDMIKE® VC
Volume Control
Microphone



REDMIKE® Share
Handheld Mic &
Charger Cable



LT-71 LightMic
and Charger
Cable



Standard Accessories

RX-RCM	REDCAT Media all-in-one system
PS-24V-2.5	24V/2.5A power supply for REDCAT Media
RMT	REDMIKE classroom microphone with battery
BA-NH2A27	AA NiMH rechargeable sensing battery for REDMIKE
AC-RMLC2	REDMIKE lavalier cord
BC-RMCC	REDMIKE cradle charger
PS-5V-1.0	5V/1.0A power supply for cradle charger

Optional Components

RMV	REDMIKE VC microphone with battery
RMS	REDMIKE Share handheld microphone with battery pack
LT71	LightMic microphone with batteries
BA-NH2APK	NiMH rechargeable battery pack for REDMIKE Share
BA-NH1	AA NiMH rechargeable battery for LT71 (2 per microphone)

5. Warranty, Safety
& Specifications

4. Troubleshooting

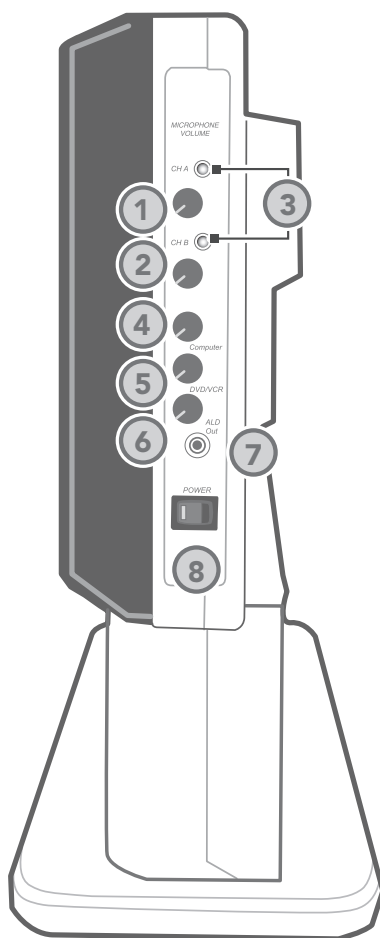
3. Optional
Accessories

2. Setup & Use

1. Overview

SIDE PANEL CONTROLS AND CONNECTIONS

- 1. CH A VOLUME:** Controls the volume level of the microphone set to Channel A.
- 2. CH B VOLUME:** Controls the volume level of the microphone set to Channel B.
- 3. IR INDICATORS:** These lights glow RED when the corresponding microphone is turned on a transmitting. A steady light indicates a strong signal.
- 4. COMPUTER VOLUME:** Controls the volume level of the audio input from a computer or other device connected to the "computer" input.
- 5. DVD/VCR VOLUME:** Controls the volume level of the audio input from a DVD/VCR or other device connected to the "DVD/VCR" input.
- 6. ALD VOLUME:** Controls the volume level of the audio output to an assisted listening device (ALD).
- 7. ALD OUT:** 3.5mm outputs to an ALD or recording device.
- 8. POWER SWITCH:** Turns the REDCAT Media ON or OFF. The LED indicator will glow red when the system is on.



REAR PANEL CONTROLS AND CONNECTIONS

1. CARRYING INSET: Cutaway grip for moving or carrying the REDCAT Media.

2. 8-BAND GRAPHIC EQUALIZER: The sliding controls adjust the levels of the various audio frequencies. This allows the installer to properly equalize the system to produce optimum sound quality.

3. DC POWER INPUT: Plug the power supply (24V/2.5A) into this jack.

4. COMPUTER AUDIO INPUT: Plug a 3.5mm cable from a computer to this jack to play all computer audio through the REDCAT Media.

5. DVD/VCR AUDIO INPUT: Plug a

stereo RCA cable from your DVD/VCR or other device into this jack to play that audio through the REDCAT Media.

6. PAGEFIRST INPUT AND ADJ:

Connect the input from optional PageFirst sensor here when interface with a buildings paging system. Use the ADJ control to adjust the sensitivity if needed.

7. JACKS FOR TESTING PURPOSES ONLY:

These connections are only for use at the Lightspeed factory for test and diagnostics.

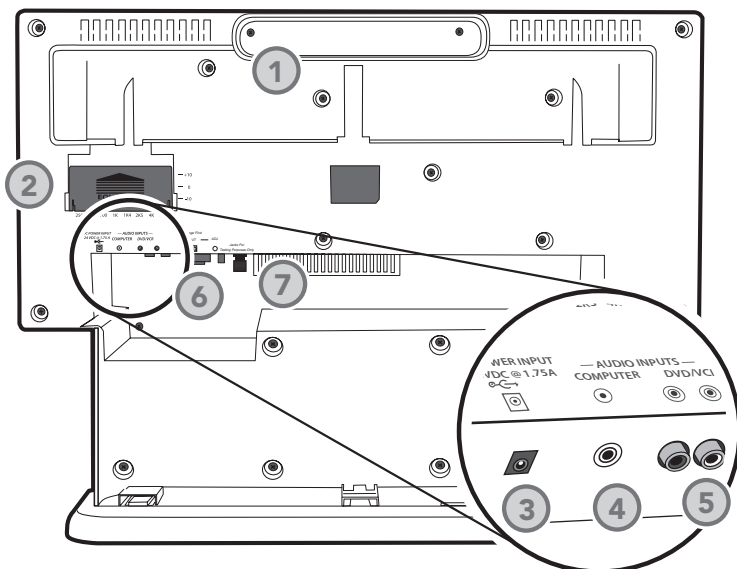
5. Warranty, Safety & Specifications

4. Troubleshooting

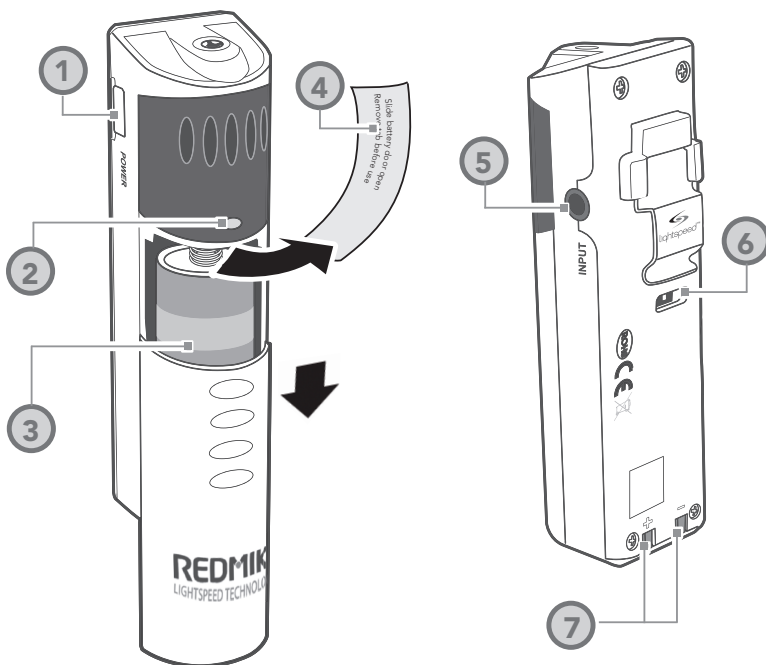
3. Optional Accessories

2. Setup & Use

1. Overview



REDMIKE CONTROLS AND CONNECTIONS

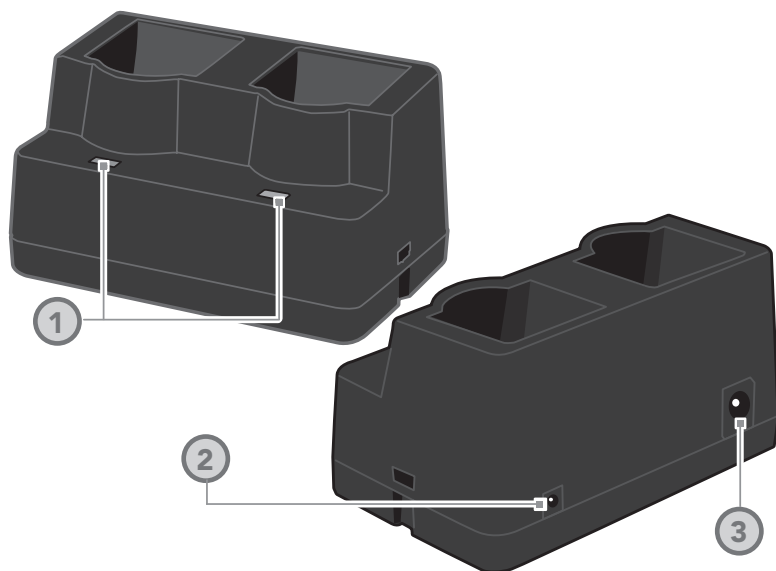


- 1. POWER BUTTON:** Press this button to turn the REDMIKE ON, press again to turn it OFF (mute).
- 2. POWER/LOW BATTERY INDICATOR:** A BLUE light indicates the REDMIKE is on and fully charged. A RED light indicates a charge is needed.
- 3. BATTERY COMPARTMENT:** To access the battery compartment, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # BA-NH2A27).
- 4. YELLOW PROTECTIVE TAB:** Slide the battery compartment door open to remove this disposable protective tab before use. NOTE: do not attempt to remove the tab without first

opening the compartment door, as it may tear, leaving fragments.

- 5. AUDIO/MICROPHONE INPUT:** Use this input to plug in a laptop, MP3 player or other audio source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.
- 6. CHANNEL SELECT SWITCH (CH A/B):** This switch allows for selection between Channel A or B. If you are using a single microphone, we recommend using Channel A.
- 7. CHARGER CONTACTS (+ -):** These contacts interface with the charging tabs in the BC-RMCC cradle charger for daily charging. Simply place the REDMIKE in the charger.

CRADLE CHARGER CONTROLS AND CONNECTIONS



1. CHARGE INDICATORS: The light glows RED while the REDMIKE is charging. When fully charged, the light will glow GREEN. A blinking RED light indicates that no battery is sensed, (REDMIKE Yellow Protective Tab may not have been completely removed—see page 5, item 4.) A blinking Green LED means a non- Lightspeed battery has been installed (possibly an alkaline battery).

2. DC POWER PORT: Connect the DC power cord here.

3. OPTIONAL CHARGING PORT: Plug the charging cord for the optional LT-71 or the REDMIKE Share microphones here.

5. Warranty, Safety
& Specifications

4. Troubleshooting

3. Optional
Accessories

2. Setup & Use

1. Overview

SECTION 2:

SET-UP & USE

1. DETERMINE SET-UP LOCATION

The REDCAT Media is shipped with a table stand connected and ready for use. Alternatively, the table stand can be used as the wall mount bracket.

Advantages of either include:

Tabletop (recommended):

- Virtually no setup time
- Greater flexibility to move to different locations

Wall-mount:

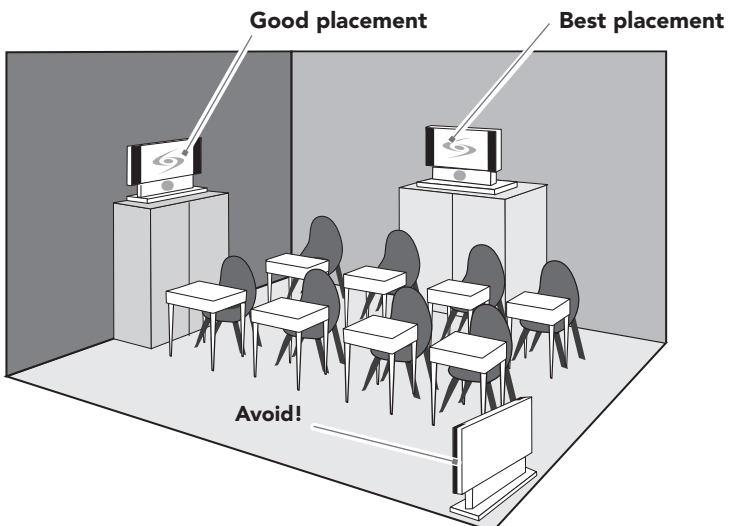
- More permanent setup
- Greater security

1A. TO SET-UP ON TABLE-TOP

First, consider that the REDCAT Media should be placed within 7 feet of an electrical outlet and on a surface about 3-6 feet off the ground.

Next, find a location as far away as possible from the teacher who will be using the mic. The best place is against the wall opposite where the

teacher will be speaking. If this is not possible, other good locations are along either wall next to the teacher or in a corner. Avoid placing the REDCAT Media next to where the teacher instructs. Putting the REDCAT Media in close proximity to the teacher's mic can result in feedback.

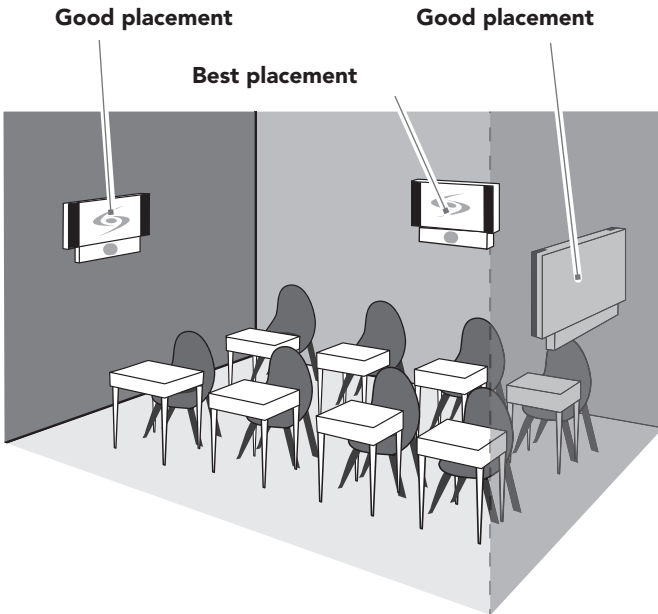


1B. TO SET-UP MOUNTED ON A WALL

First, consider that the REDCAT Media should be placed within within 7 feet of an electrical outlet and about 6-8 feet off the ground.

Next, find a location as far away as possible from the teacher who will be using the mic. The best place is centered on the long wall opposite

the teacher. If this is not possible, other good locations are on the wall next to the teacher. Avoid placing the REDCAT Media on any wall close to where the teacher usually stands to instruct the class. Having the teacher's mic too close to the REDCAT Media can result in feedback.



5. Warranty, Safety
& Specifications

4. Troubleshooting

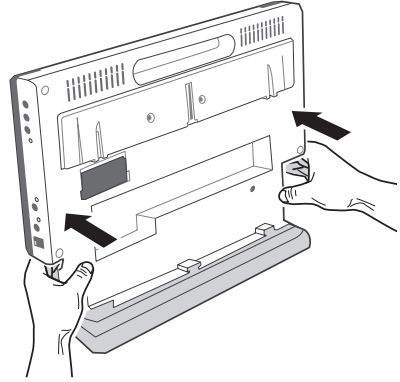
3. Optional
Accessories

2. Setup & Use

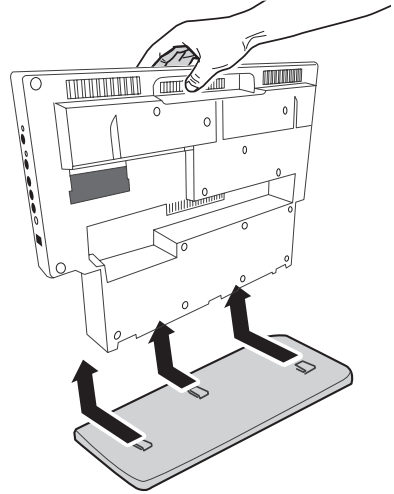
1. Overview

1B. TO SET-UP MOUNTED ON A WALL CONT'D

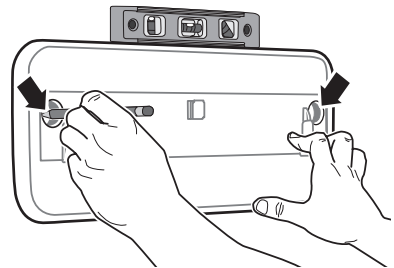
1. Grip the bottom of the REDCAT Media where it meets the base.



2. Slide REDCAT Media off the base clearing the three guides, then lift clear.

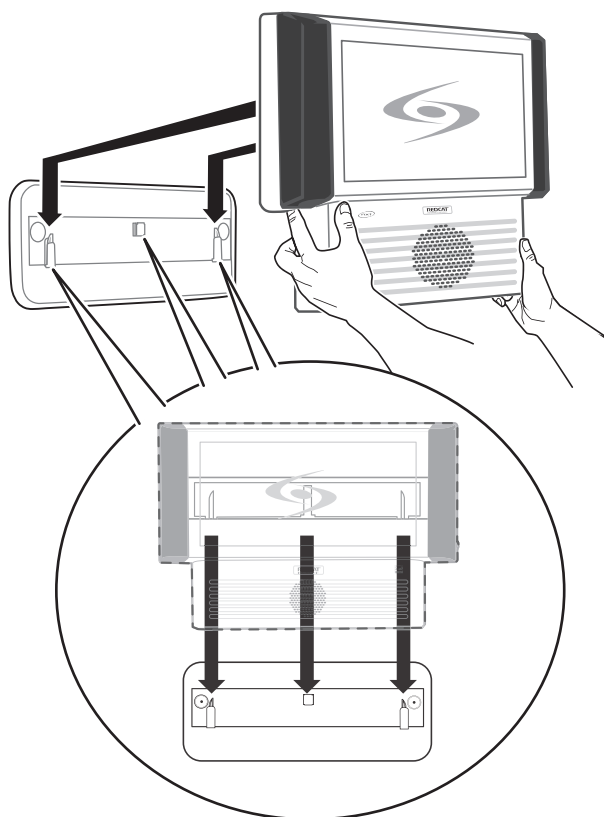


3. Ensure proper orientation of the bracket as shown in the illustration.



1B. TO SET-UP MOUNTED ON A WALL CONT'D

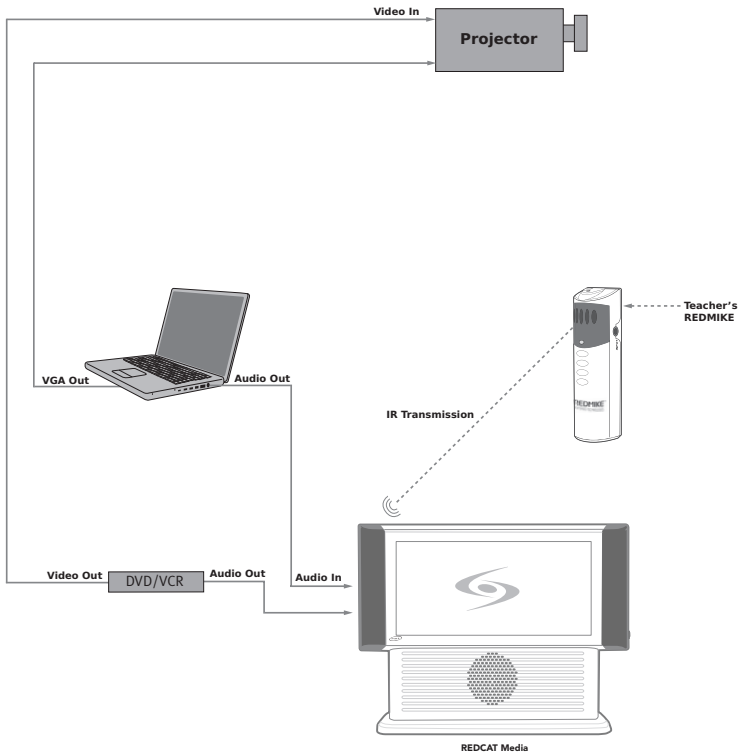
4. Place the base/wall bracket against the wall and use a level to confirm the positioning is straight.
5. Mark the wall where the retaining screws will be installed.
6. Attach the bracket to the wall using the mounting screws and drywall anchors (if required).
7. Holding the REDCAT Media firmly by the bottom quarter, slide the REDCAT Media onto the wall bracket as illustrated below.



2. AUDIO INTEGRATION

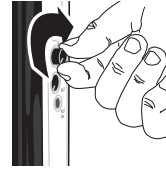
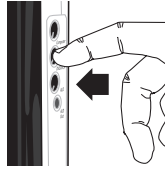
The next step in setting up your REDCAT Media system is to connect it to the other elements of your audio system. Audio systems have varying elements – you may have a computer, television, DVD/VCR player, a visual projection system or other devices. In this section you will find instructions on how to connect an external audio device like a TV, VCR, DVD, MP3 or computer directly into the REDCAT Media.

One Possible Set-up



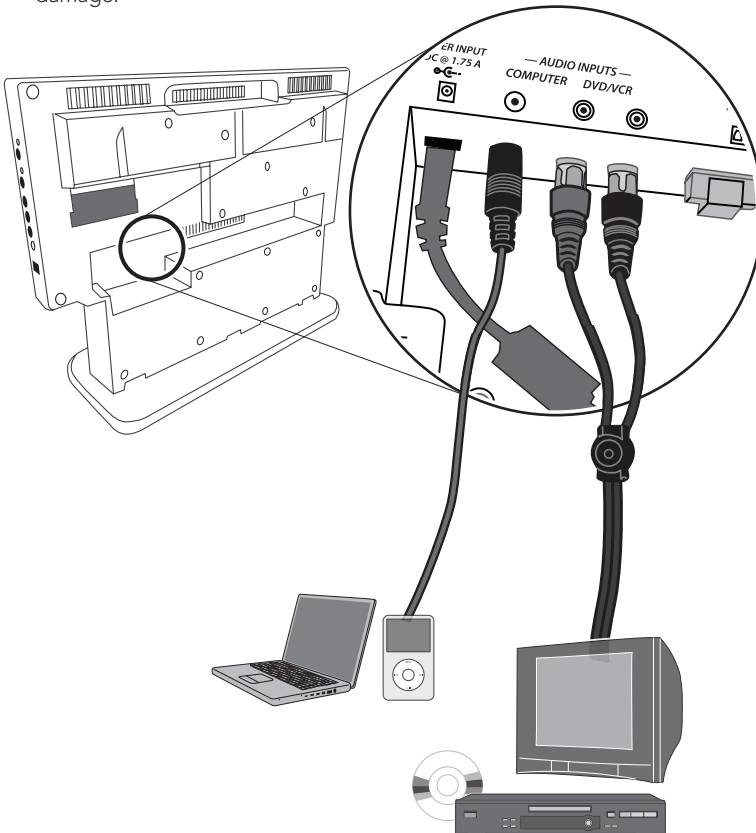
2. AUDIO INTEGRATION CONT'D

1. Turn the Computer or DVD/VCR volume on the REDCAT Media all the way down. REDCAT Media volume controls push in and lock to prevent accidental adjustment.



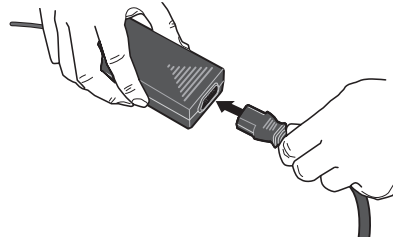
2. Connect a patch cable (not included) from the audio source into the Computer or DVD/VCR input jack on the bottom of the REDCAT Media.
3. With both the REDCAT Media and audio source power on, adjust the corresponding volume control until the desired level is achieved.

NOTE! Be careful to not to set the volume too high, as this can distort the speaker and potentially cause damage.

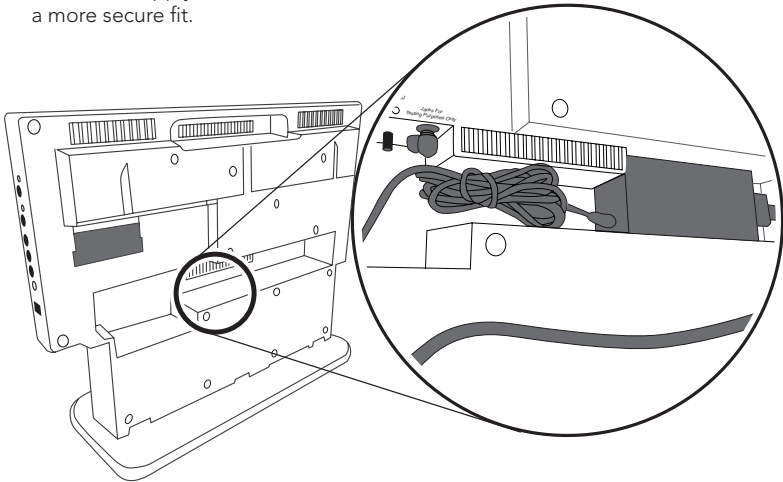


3. CONNECTING THE POWER SUPPLY

1. Locate the power supply and AC power cord. Connect the AC power cord into the DC power supply.



2. Place the power supply into the REDCAT Media base as shown. If desired, remove the plastic cover of the included Velcro strip and attach the supply to the Velcro for a more secure fit.



3. Insert the DC connector into the "DC POWER INPUT" connector on the REDCAT Media and plug the other end to an electrical outlet.

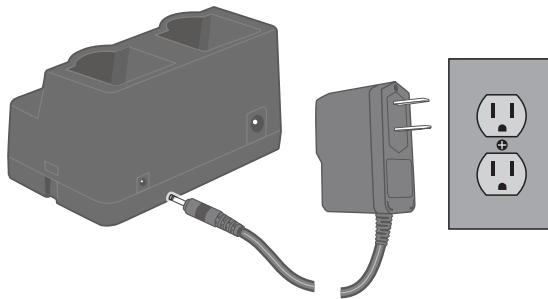
4. CHARGING THE REDMIKE

Before use, the REDMIKE should be charged. It will take 8-9 hours for the REDMIKE to obtain a full charge. A fully charged REDMIKE will last for over 7 hours of use. If microphones are used daily, they should be kept in the cradle – microphones can be left in a charging cradle constantly for up to 2 weeks without causing degradation to battery life.

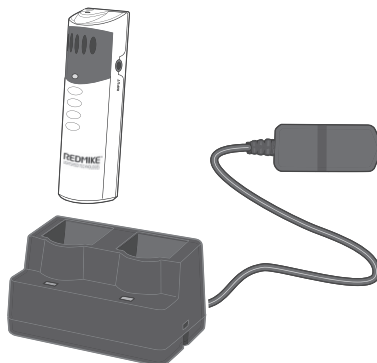
A red light on the charging cradle indicates the REDMIKE is charging. A green light indicates that charging is complete and a full charge has been reached. A blinking light indicates a charging or sensing error. See Troubleshooting section for more information.

REDMIKE incorporates alkaline protection into the microphone design. Always use a Lightspeed rechargeable sensing battery. Replacement AA NiMH batteries may only be purchased through Lightspeed Technologies (part # BA-NH2A27). Do not attempt to charge alkaline batteries. They can overheat and expand creating a significant hazard and damaging the microphone (this is not covered by warranty).

1. Plug power cord into the cradle charger and then plug the AC end into an electrical outlet.
2. Ensure that the REDMIKE is turned OFF.



3. Place the REDMIKE into the cradle. The LED on the cradle will glow RED indicating charging has started. When the REDMIKE is fully charged the LED on the cradle charger will change to GREEN.



5. OPERATING THE REDMIKE

Once the REDMIKE is charged, follow these steps to set it up for use.

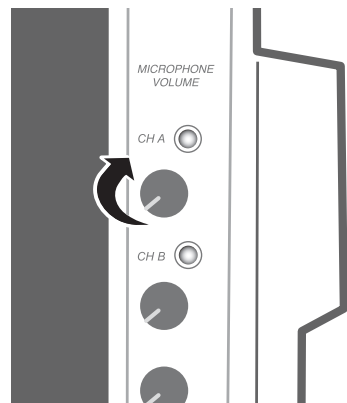
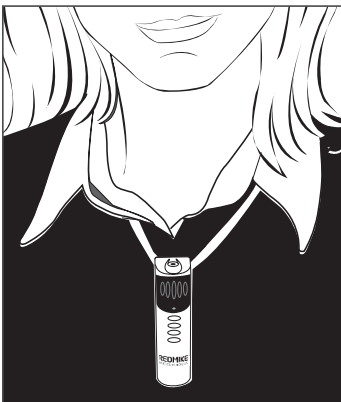
1. Turn the REDCAT Media power switch to the ON position.
2. Remove the REDMIKE from the charging cradle and turn it on. The red IR LED (CH. A or CH. B) on the REDCAT Media will light to indicate a signal is being received.
3. Slip the REDMIKE with lanyard around the neck and position the top of the microphone just below the collarbone.
4. Slowly increase the CH. A/B volume up to the “green” section of the dial. This designates normal volume range in the classroom.
5. While speaking in a normal voice, fine-tune the volume up or down. Proper volume level should be as follows:
 - Your voice should be clearly heard by another person on the other side of the room.
 - You should barely be able to

hear your own voice.

- There should not be any audio “feedback” or squealing outside of 2-3 feet (if there is, turn the volume down slightly).

REMEMBER: This equipment supplements the user’s voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.

6. Once initial volume level is set, walk around the room and listen for audio dropout and overall audio quality.
7. If further fine-tuning is required, audio equalization may be necessary. Please refer to the following page.
8. If a second REDMIKE was purchased, repeat steps 2-4.

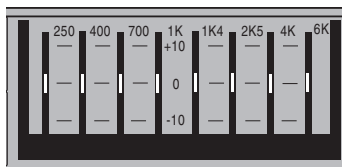


6. ADD'L ADJUSTMENTS & CONNECTIONS

Fine-tuning Audio

If the volume is set properly, but there is still a small amount of audio feedback (squealing) some audio equalization may be necessary. Follow the steps below to properly EQ the system:

1. Slide up and flip down the EQ cover door.
2. Walk the room listening for feedback (squealing).
3. Lower the 2K5 and/or 4K sliders if a high-pitched ring is present.
4. Lower the 400 and/or 700 sliders if a low-pitched ring is present.
5. If feedback is still present, it is likely the volume simply needs to be turned down.

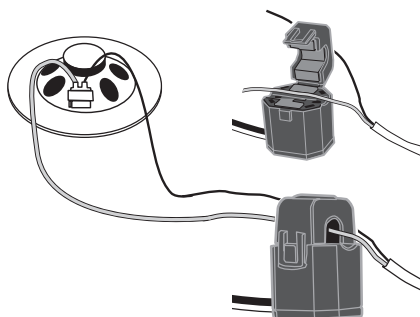


Optional PageFirst Interface

This optional feature interfaces with an independent classroom paging system. When the page is broadcast, all audio from the system is muted, ensuring important and even emergency school-wide messages are never missed.

How it works:

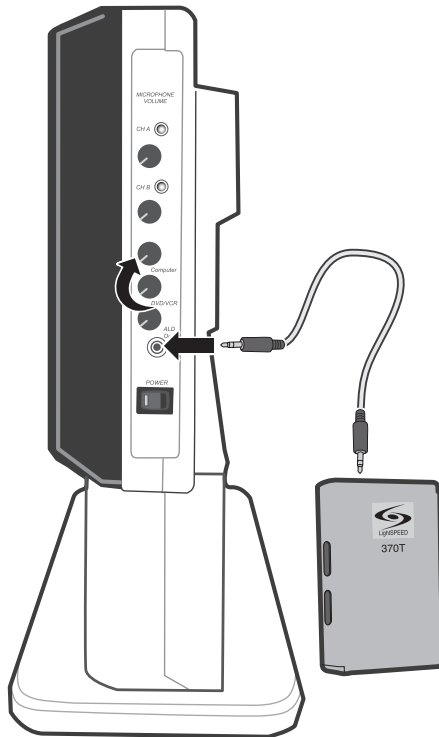
1. PageFirst sensor clip is hung around the lead wires attached to the classroom paging speaker.
2. The clip is hard-wired to the REDCAT Media.
3. As a page is broadcast, the sensor clip detects the audio signal through induction and immediately mutes the REDCAT Media.
4. When the page is over, the audio from the REDCAT Media returns to normal volume level.



(For full installation details refer to the install sheet included with the optional PageFirst sensor clip)

OUTPUT TO ASSISTIVE LISTENING DEVICE (ALD)

1. Turn the ALD (Assistive Listening Device) volume control on the REDMIKE side panel all way the down.
2. Determine the size and type of audio input jack on the device as many manufacturers' products differ in connector size and shape. The Lightspeed LES-370 Personal FM System requires a 3.5mm to 3.5mm patch cable (part# CA-MMC3535, not included).
3. Connect a patch cable from the ALD's microphone jack or AUX input to the 3.5mm audio jack labeled "ALD OUT" on the side of the REDCAT Media.
4. Adjust the volume control on the ALD's receiver to maximum output. NOTE: This is to set the maximum allowable signal from the REDCAT Media.
5. With the REDCAT Media and ALD turned on, speak into the REDMIKE and slowly adjust the ALD volume control until the appropriate audio level is attained in the ALD's receiver headphones.



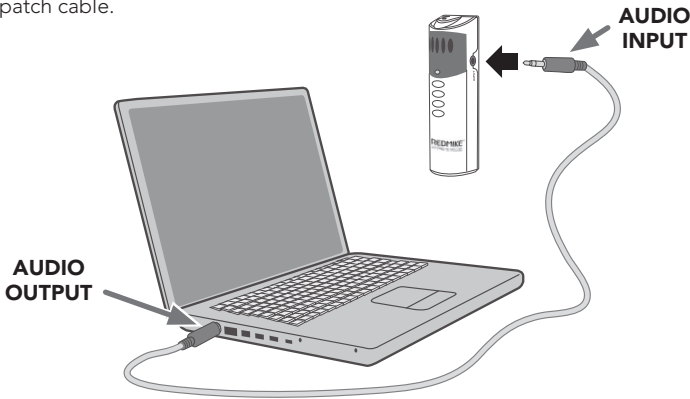
USING THE REDMIKE TO AMPLIFY EXTERNAL AUDIO EQUIPMENT

The REDMIKE includes a 3.5mm audio input jack to connect to an audio source like a laptop or MP3 player. The REDMIKE will transmit the audio signal to be played through the system.

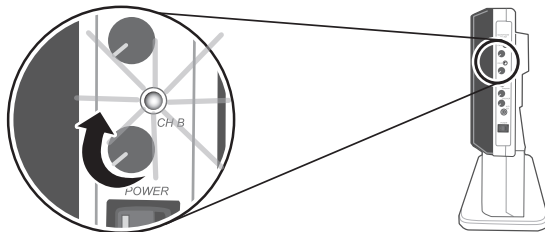
If your system includes two REDMIKES, we recommend using Channel B (student mike) to amplify the external audio equipment so the teacher's volume on the Channel A (teacher mike) does not have to be adjusted.

To determine which REDMIKE is set to Channel B, you can look at the switch on the back of the mike or speak into one of the mics and watch which set of LED's glow on the front panel of the REDCAT Media (A Volume or B Volume correspond to Channels A or B).

1. Plug your external audio equipment (for example, laptop), into the input on the REDMIKE labeled "INPUT" using a 3.5mm patch cable.



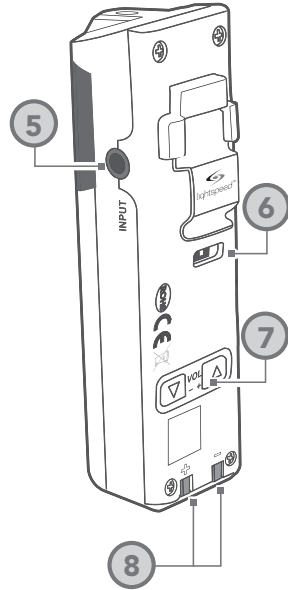
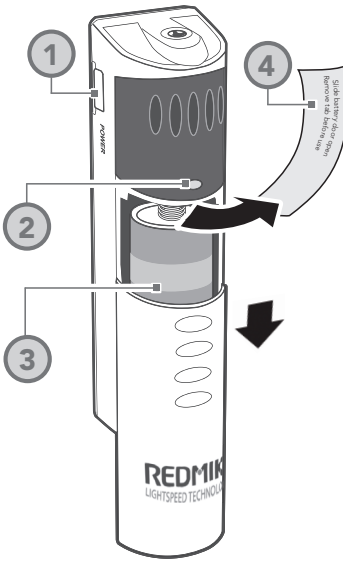
2. Adjust the volume of the selected mic channel to achieve desired loudness.



SECTION 3:

OPTIONAL ACCESSORIES

OPTIONAL REDMIKE VC (Volume Control) Controls and Connections



1. POWER /MUTE BUTTON

2. POWER/LOW BATTERY INDICATOR: A BLUE light indicates the REDMIKE VC is on and fully charged. A RED light indicates a charge is needed.

3. BATTERY COMPARTMENT: To open, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # BA-NH2A27).

4. YELLOW PROTECTIVE TAB: Slide the battery compartment door and remove this disposable protective tab before use.

5. AUDIO/MICROPHONE INPUT: Use this input to plug in a laptop, MP3 player or other audio

source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.

6. CHANNEL SELECT SWITCH (CH A/B): Use this to choose Channel A or B. If you are using a single microphone, we recommend using Channel A.

7. VOLUME CONTROLS (UP - DOWN)

8. CHARGER CONTACTS (+ -): These contacts interface with the charging tabs when the REDMIKE VC is placed in the BC-RMCC cradle charger.

REDMIKE VC : Charging

Before use, the REDMIKE VC should be charged. See page 17 and follow the same instructions for the REDMIKE.

REDMIKE VC : Initial Set-up

See page 18 and follow the same instructions for the REDMIKE to setup the REDMIKE VC.

NOTE: A nominal volume level must be set on the REDCAT Media before adjusting controls on the REDMIKE VC.

The teacher can now use the controls on the REDMIKE VC to adjust the volume level from anywhere in the room. The microphone volume control has 4 steps up and 4 steps down from the mid point (9 levels total).

5. Warranty, Safety
& Specifications

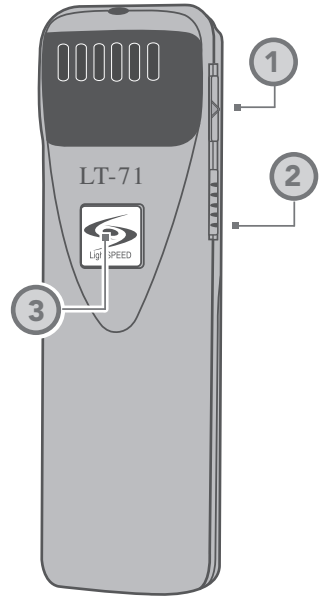
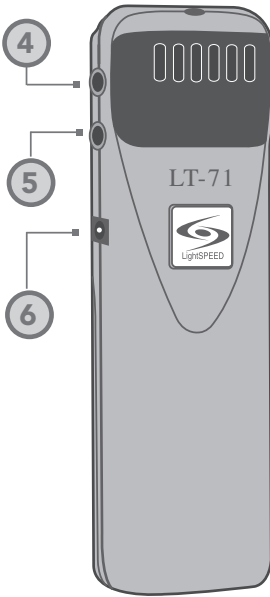
4. Troubleshooting

3. Optional
Accessories

2. Setup & Use

1. Overview

OPTIONAL LT-71: Controls and Connections



1. ON/OFF/MUTE Switch

2. CHANNEL SELECT SWITCH (CH A/B):

Use this to choose Channel A or B. If you are using a single microphone, we recommend using Channel A.

3. POWER/CHARGE INDICATOR:

A BLUE light indicates the REDMIKE VC is on and fully charged. A RED light indicates a charge is needed.

4. EXTERNAL MICROPHONE

INPUT (MIC): Use the 3.5mm MIC jack for the optional TK-250 headset microphone (part# MC-TK250LTM).

5. AUXILIARY (AUX):

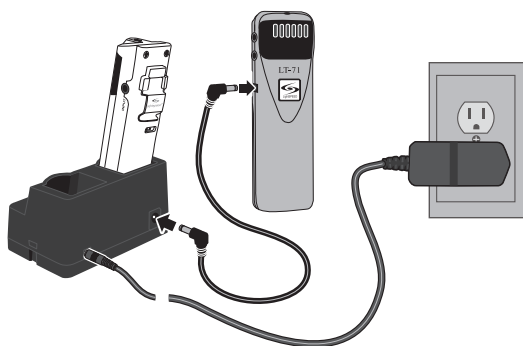
Plug a laptop, MP3 player or other audio source into this jack to wirelessly transmit the audio signal to be played through the system.

6. CHARGER INPUT (CHARGER):

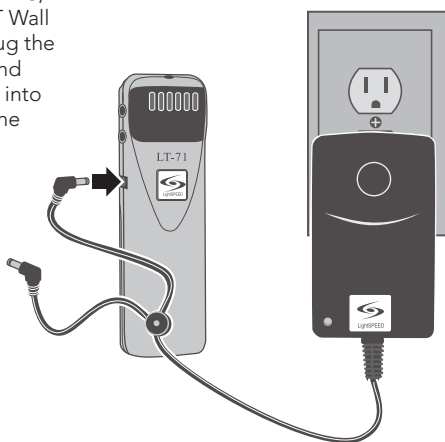
Plug the charging cable from the charger into this jack for daily charging. The LED on the front will glow RED to indicate charging.

LT-71: Charging

1. Ensure that the LT-71 is turned OFF.
2. Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the side of the LT-71 and plug the other end into the charging jack on the rear of the REDMIKE cradle charger. The LT-71's rechargeable batteries are factory installed. The LED on the front of the LT-71 will glow RED when charging.
3. Leave the LT-71 plugged in overnight (8–10 hrs.) to obtain a full charge.



NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the LT-71 will utilize the BC-TXLT Wall Charger for charging. Simply plug the wall charger into an AC outlet and plug one of the charging cables into the jack labeled CHARGER on the LT-71.

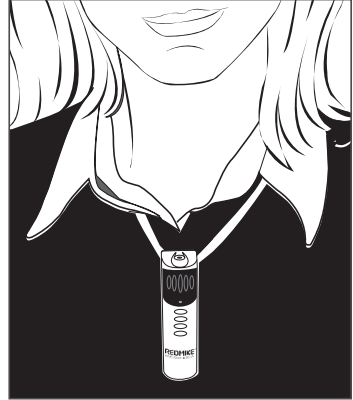


LT-71: Initial Set-up

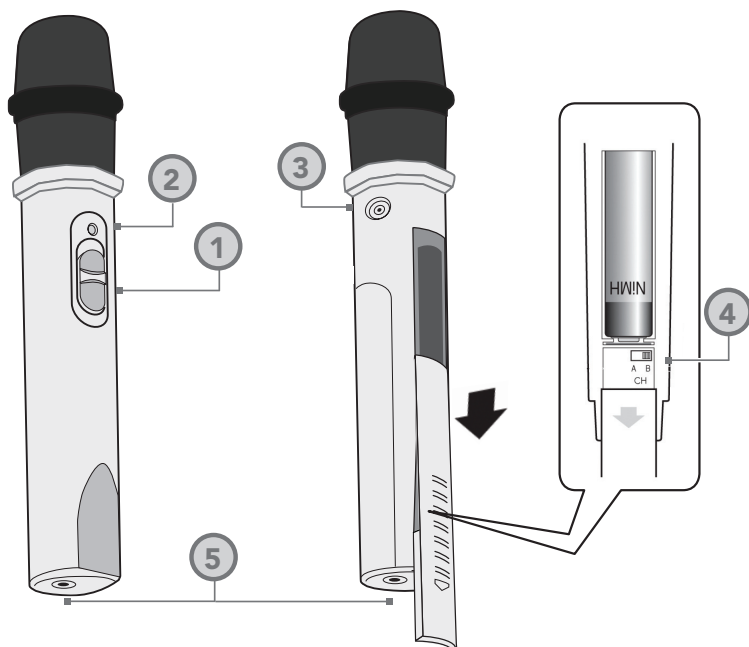
Once the LT-71 is charged, follow these steps to set it up for use.

1. Turn the REDCAT Media power switch to the ON position. The RED LED on the switch will glow.
2. Turn on the LT-71 and set the operating channel to "B".
3. Slip the LT-71 with lanyard around the neck and position the top of the microphone just below the collarbone. NOTE: Positioning of the LT-71 is critical for proper volume adjustment.
4. While speaking in a normal voice slowly increase the volume for Channel B on the REDCAT Media until your voice is barely audible.

REMEMBER: This equipment supplements the user's voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.



REDMIKE Share: Controls and Connections



1. POWER SWITCH:

2. POWER/CHARGE INDICATOR:

this light glows blue when turned on and turns off to indicate low battery level. When charging, the light glows red.

3. AUDIO INPUT: plug a laptop, MP3 player or other audio device into this jack to wirelessly transmit the audio signal to be played through the system.

4. CHANNEL SELECT SWITCH

(CH A/B): Located in the battery compartment, this switch is set to Channel B at the factory.

5. CHARGER INPUT: Plug the charging cable from the REDMIKE cradle charger or into this jack.

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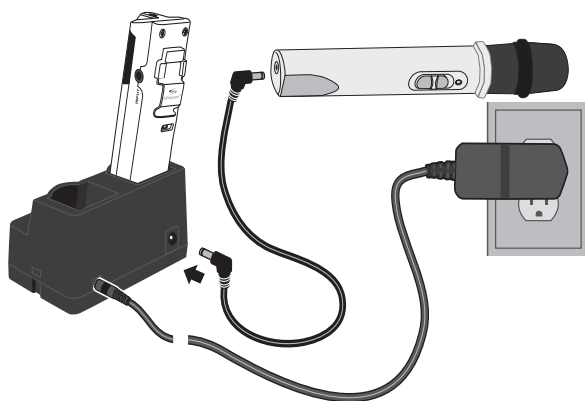
3. Optional
Accessories

2. Setup & Use

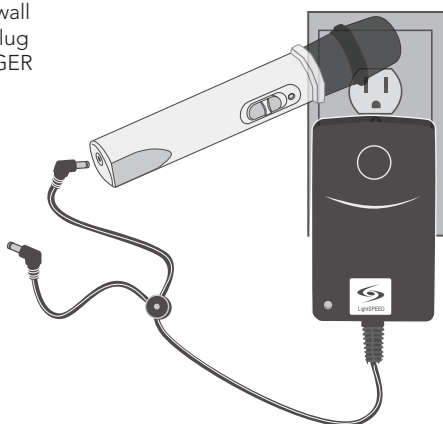
1. Overview

REDMIKE Share: Charging

1. Ensure that the REDMIKE Share is turned OFF.
2. Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the bottom of the REDMIKE Share.
3. Plug the other end into the charging jack on the rear of the cradle charger.
4. The LED on the microphone will glow RED to indicate charging.
5. Leave the REDMIKE Share plugged in overnight (8-10 hours) to obtain a full charge.



NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the REDMIKE Share will utilize the BC-TXLT wall charger. Plug the wall charger into an AC outlet and plug the other end(s) into the CHARGER jack on the REDMIKE Share.



REDMIKE Share: Initial Set-up

1. Ensure the REDCAT Media is ON.
The red LED on the power button will glow.
2. Turn on the REDMIKE Share by sliding the switch to the top position.
3. Grip the barrel in the center section. Avoid covering the infrared emitters just below the microphone grille. This could interrupt signal transmission.
4. While speaking in a normal voice, increase the CH. B VOLUME on the REDCAT Media level until your voice is barely audible.

REMEMBER: This equipment is designed to supplement and distribute the user's voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.



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INITIAL SET-UP: OPTIONAL IR MEDIA CONNECTOR

1. Turn off the second microphone.
The iR Media Connector uses the same channel (channel B) as the optional second microphone (REDMIKE, LT-71, or REDMIKE Share). As a result, they cannot be used simultaneously. If you have a second microphone, turn it off before transmitting audio from the iRMC.

NOTE: If you adjust the CH B volume on the classroom audio system, you will also be changing the volume for your second microphone. Return the CH B volume knob to the original position before turning the second microphone back on.

2. The iR Media Connector volume is preset for most standard audio signals. If you need to turn the volume up or down, follow this procedure:

- A. Adjust the volume at the computer, television, or other audio source if possible.



- B. If the audio source does not have a volume control (such as many DVD players) adjust the volume at the iRMC.

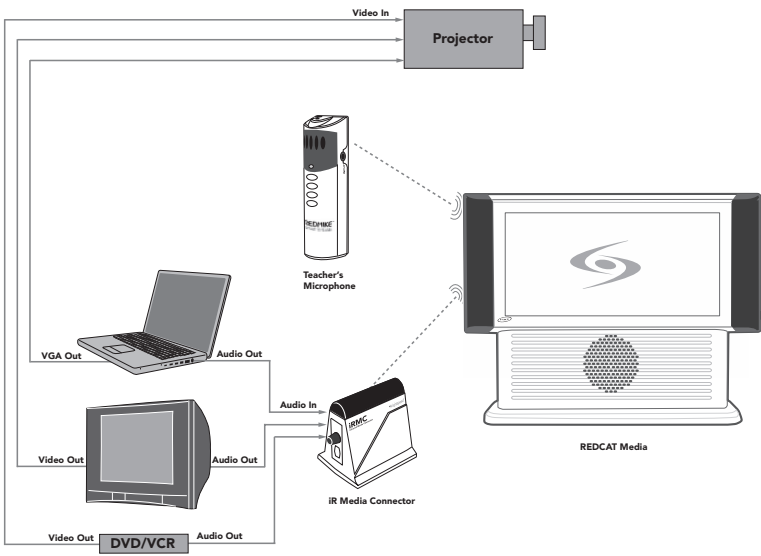


3. If the first two options do not give optimum volume level, the last place to adjust the volume is the CH. B Volume on the classroom audio system (REDCAT Media or other).



OPTIONAL IR MEDIA CONNECTOR AUDIO INTEGRATION

The iRMC is designed to integrate with the REDCAT Media and multiple audio sources, allowing other instructional technologies to be clearly heard throughout the classroom.



OTHER OPTIONAL ACCESSORIES

Other Optional Accessories	
LT-71	LightMic microphone with lavalier cord, rechargeable batteries and charging cable
RMS	REDMIKE Share handheld microphone w/battery pack
MC-TK250LTM	Noise-canceling headset microphone
AC-TCC7	Charging cable for LT-71 and REDMIKE Share microphones
CA-RCA6	6' dual RCA audio cable
CA-RCA24	24' dual RCA audio cable
CA-MSC3535	3.5mm to 3.5mm stereo audio cable
CA-MMC2535	Audio patch cable (2.5 mm mono to 3.5 mm mono)
BA-NH1	AA Rechargeable battery (for LT-71 and REDMIKE Share)

SECTION 4:

TROUBLESHOOTING

COMMON PROBLEMS AND SOLUTIONS

Note: Most problems are directly related to low battery power. Please run through the “Battery Check” items first. For remaining troubleshooting, use known good, fully-charged batteries.

ALL PROBLEMS: Most Problems are related to low battery power.

SOLUTION: Battery Check

- Confirm batteries are charged each night.
- Confirm proper batteries are used. The REDMIKE requires the Lightspeed BA-NH2A27 rechargeable sensing battery for proper charging. The REDMIKE Share uses the BA-NH2APK rechargeable battery pack. The LT-71 requires two BA-NH1AA rechargeable batteries.
- Make sure the microphones are turned off while charging so a full charge is attained. Full charge will last eight hours.
- Inspect the battery contacts. Clean and adjust if necessary.

PROBLEM: Hearing Static

SOLUTION: Follow these steps to eliminate static.

- Ensure sensor is in optimum location (refer to sensor placement in manual). A single sensor will cover a 1600 sq. ft. enclosed classroom.
- Ensure that no other REDMIKE/LT-71/REDMIKE Share is operating on the same channel.

- If the optional iR media connection is in use, set the microphone to Channel A.

PROBLEM: Low Volume or Feedback

SOLUTION: Follow these steps to eliminate low volume or feedback.

- Ensure microphone is positioned appropriately, just below the collar bone.
- Check volume level on the amplifier. If the volume is too high, feedback will occur. Adjust accordingly.
- Adjust the volume level on the back of the optional REDMIKE VC.

PROBLEM: No Sound From Speaker

SOLUTION: Follow these steps to produce sound from speakers.

- Turn the REDCAT Media on. Confirm that the POWER light located on the front panel switch is on.
- Confirm signal is being received at the REDCAT Media. The IR signal light will be RED indicating a signal is being received.
- Confirm that REDMIKE is turned on. There will be a BLUE LED on the microphone to indicate it is powered on.

If you review these instructions and still have questions, write down the serial number and model number of your system and call Lightspeed Technical Services at 800.732.8999, 5 a.m. – 5 p.m., PST.

TIPS TO OBTAIN OPTIMUM AUDIO PERFORMANCE

- Speak in a natural voice. A normal conversational speech level will provide an adequate signal. It is not necessary to increase the intensity of your voice—the audio system provides adequate amplification (approximately 5 – 10 dB) above ambient room noises.
- Avoid wearing jewelry that may rub or bump against the microphone.
- Turn the REDMIKE off during private conversations with a student, parent, or other classroom visitor. You can also cover the LED lens on top of the REDMIKE to block the signal.
- Recharge batteries each night. When recharged nightly, operating time (actual usage) for the transmitters will last through a typical school day.

SECTION 5:

WARRANTY, SAFETY & SPECIFICATIONS

FIVE-YEAR LIMITED WARRANTY

Lightspeed Classroom Audio Systems are guaranteed against malfunction due to defects in materials and workmanship for a period of FIVE (5) YEARS, beginning at the date of the purchase invoice. If such malfunction occurs, the product will be repaired or replaced (at Lightspeed's option) without charge during the warranty period.

Lightspeed's Warranty Exchange Program applies to all infrared systems within the five (5) year warranty period. If an infrared product or component has an issue that requires service, a refurbished replacement will immediately be sent to the customer to minimize downtime. Customers will receive the exchange product(s) or component(s) within 2-3 days. A prepaid return label will be included with exchanged products so original malfunctioned equipment can be returned to Lightspeed. Any exchanged equipment will remain covered under the original five (5) year warranty.



1. Warranty on infrared microphones is FIVE (5) YEARS.
2. Warranty on Lightspeed NiMH rechargeable batteries is one (1) year.
3. Prepaid shipping label provided by Lightspeed for warranty repairs within the U.S. Customers outside the U.S. should refer to the Lightspeed website (www.lightspeed-tek.com) for warranty repair instructions.
4. Warranty does not extend to finish, appearance items, or malfunctions due to abuse or operation other than specified conditions, nor does it extend to incidental or consequential damages. Repair by other than Lightspeed or its authorized service agencies will void this guarantee. Information on authorized service agencies is available from Lightspeed Technologies, Inc.

Our Service Department (800.732.8999, 5 a.m. – 5 p.m., PST) will handle all your repair/replacement needs.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. When the mains plug or appliance coupler used as the disconnect device, it shall remain readily operable.
16. Please keep the unit in a good ventilation environment.

SAFETY WARNINGS AND CERTIFICATIONS

**CAUTION**

RISK OF ELECTRIC SHOCK DO NOT OPEN

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL**

CERTIFICATIONS



This product conforms with the essential requirements of the following European Union Directives: 89/336/EEC, 92/31/EEC, 93/68/EEC, and 2004/108/EC Electromagnetic Compatibility Directives.



Lightspeed Technologies launched a formal product recycle program in Europe that complies with the European Union Directive 2002/96/EC on Waste Electrical and Electronic Equipment ("WEEE Directive"). Please visit our website at www.Lightspeed-tek.com for more information.



This product is manufactured using lead-free processes and is free of other materials harmful to the environment. It conforms to the most stringent new European guidelines for consumer products (RoHS).

SYSTEM SPECIFICATIONS

OVERALL SPECIFICATIONS

Power Output	25 Watts Total
Amplifier Frequency Response	60 Hz to 18 kHz -10 dB
Signal-to-Noise Ratio	> 73 dB
Overall Dimensions (W x D x H)	14" x 22.25" x 3"
Table Stand Footprint (W x D)	18.9" x 7"
Weight	10.5 lbs.

RECEIVER SPECIFICATIONS

Carrier Frequencies (IR)	2.06/2.54; 3.2/3.7 MHz
IR Operating Range	up to 1600 square feet
Receiver Type	Superheterodyne
Receiver Sensitivity	6 μ V for 60 dB S/N
Image and Spurious Rejection	> 70 dB

TRANSMITTER SPECIFICATIONS

REDMIKE and REDMIKE VC

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	1 AA NiMH Rechargeable Sensing Battery
Audio Input	3.5 mm
Dimensions (W x D x H)	0.9" x 1.0" x 3.5"
Weight	2.1 oz.

LT-71 LightMic

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	2 AA NiMH Rechargeable
Audio Inputs	Mic Level 3.5 mm Line Level 3.5 mm
Dimensions (W x D x H)	1.375" x .75" x 4.625"
Weight	3.7 oz.

REDMIKE Share Handheld Microphone

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	2 AA NiMH Rechargeable
Dimensions (W x D x H)	2.25" x 2.25" x 8.75"
Weight	7.36 oz.

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